

Heat Alarm User's Manual

Please read and save this manual

FIXED TEMPERATURE HEAT ALARM

MODEL: VST-H598I

 Class II Apparatus

Heat alarms are ideal for kitchen, garages, basements, boilers rooms, attics and other areas where there are normally high levels of fumes, smoke, or dust which are also for areas where smoke alarms should not be installed due to risk of false nuisance alarms.

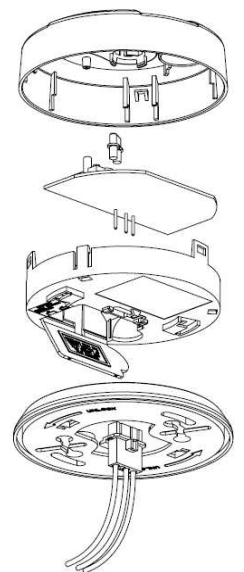
MAIN FEATURES

- AC/DC operated type heat alarm
- The heat alarm is sensitive only to a fixed temperature
Less nuisance alarms due to contamination, dust, and insects
- Quick fix mounting bracket and simple AC connector for easy installation
- Fitting and battery tamper-resist feature
- Alarm and AC power supply indicator
- Extra loud alarm sound over 85 dB
- Inter-connectable up to 40 units
- Low-battery and battery missing warning sound
- Self-test button
- Auto-hush function when temperature is below alarm point



SPECIFICATION

- Model Number: VST-H598I
- Operation Temperature: -23 °C to 70°C
- Power Source: 220-240V AC 50Hz and 9V DC Battery back-up
- Alarm point: 58°C (135°F) fixed temperature triggers alarm
- Alarm Sound Level: 85 decibels at 3m (10 feet)
- Standby Current (9V battery): 15u A max
- Alarm Current (9V battery) : 20m A max
- Recommended Coverage: 232 m² (2500 square feet)
- Recommended Spacing: 15m (50ft)
- Maximum Distance from wall: 7.5m (25ft)
- Compact size: 110mm diameter



 **WARNING**

Heat alarms are not life safety devices and are not designed to detect smoke or fire. Heat alarms detect temperatures of 58°C (135°F) or greater, and are intended to be used as supplements to smoke alarms by providing early warning.

IMPORTANT SAFETY INFORMATION

1. This heat alarm requires constant 220-240V AC 50Hz mains power supply to operate properly. Backup 9V DC battery will offer additional protection in the event of power failure. This heat alarm WILL NOT work if AC power is not connected or has failed or been interrupted for any reason. AND if the backup battery is removed, drained or improperly connected, the alarm will not work during a power failure. DO NOT use any other kind of battery except as specified.

2. The Test button accurately tests all heat alarm functions. For temperatures that are below 0°C use a hand held hair dryer and blow hot air into heat alarm to test. DO NOT use any other test method. Test heat alarm weekly to ensure proper operation.

3. Observe and follow all local and national electrical and building codes for installation.

4. This heat alarm is designed to be used inside a single room building only. In multi-room buildings, each individual living unit should have its own heat alarm. DO NOT install the alarm in non-residential buildings or places which house many people like hotels, motels, dormitories, hospitals, nursing homes, or group homes. This heat alarm is not a substitute for a complete alarm system.

5. Heat alarms should be used as supplements to smoke alarms in order to provide early warning of heat, smoke or fire. In addition, Heat alarms should be installed in every bedroom and on every level of the home. This alarm may not always detect slow, smoldering, low heat producing fires. In addition, heat from a nearby fire may bypass the heat alarm.

6. Heat alarms may not alert every household member every time. The alarm horn of the heat alarm is loud in order to alert individuals of a potential danger. However, there may be limiting circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, the hard of hearing, etc.). If you suspect that your heat alarm may not alert a household member, install and maintain special heat alarms.

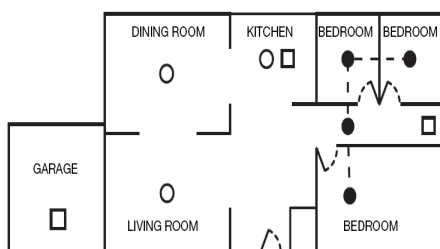
7. This heat alarm can only sound its alarm when it detects temperatures of 58°C (135°F) or greater. Heat alarms do not detect smoke, flame, or gas. In some fires, hazardous levels of toxic chemicals and smoke can build up before a heat alarm will operate. Temperatures may not reach 58°C (135°F) to activate the heat alarm QUICKLY ENOUGH to ensure safe escape.

8. Heat alarms have limitations. This heat alarm is not foolproof and is not warranted to protect lives or property from fire. Heat alarms are not a substitute for insurance. Homeowners and renters are responsible for insuring their lives and property. In addition, it is possible for the heat alarm to fail at any time.

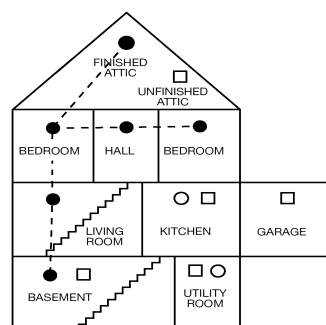
HEAT ALARM PLACEMENT

Heat alarms have an audible warning when the temperature at the alarm reaches 58°C (135°F). Heat alarms are ideal for kitchens, garages, basements, boilers rooms, attics, and other areas where there are normally high levels of fumes, smoke, or dust.

Single-Story Residence



Two-Story Residence



Key:

● Minimum required smoke alarm locations

○ Recommended additional smoke alarm locations

□ Recommended heat alarm locations

HEAT ALARM LOCATIONS

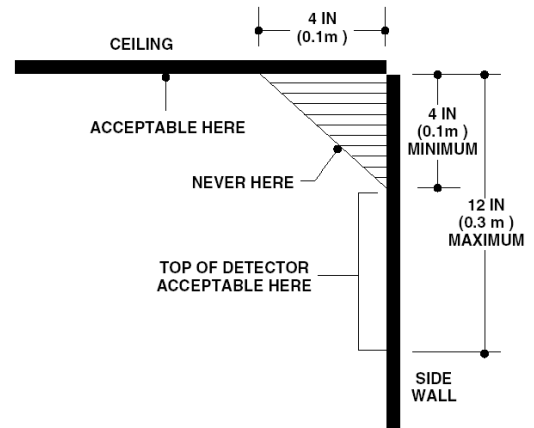
1. Install a heat alarm as close to the center of the ceiling as possible. If this is not practical, mount the alarm no closer than 4 inches from a wall or corner.

2. If ceiling is not practical or the mounting surface may become considerably warmer or cooler than the room, such as a poorly insulated ceiling, below an unfinished attic or an exterior wall, and if local codes allow, install heat alarms on walls, between 4 and 12 inches from ceiling/wall intersections.

3. Install heat alarms on peaked, cathedral, or gabled ceilings 3 feet from the highest point (measured horizontally).

4. In a room with open joists or beams, all ceiling mounted heat alarms shall be located on the bottom of joists or beams – not in channels.

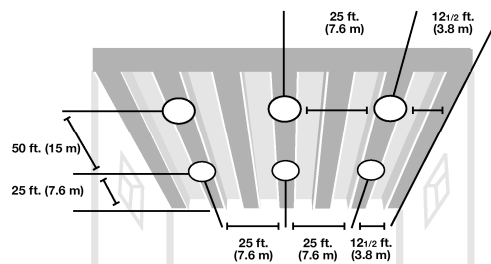
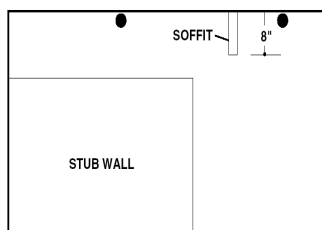
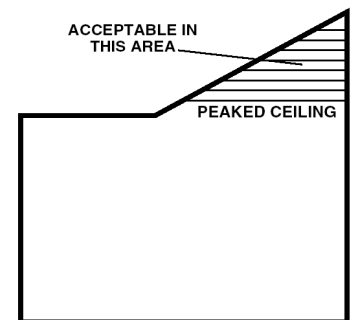
5. Heat alarms installed on an open-joisted ceiling shall have their smooth ceiling spacing reduced to no more than half of the listed spacing when measured at right angles to solid joist.



DO NOT INSTALL HEAT ALARMS:

1. In areas with high humidity, like bathrooms or areas near dishwashers or washing machines. Install at least 3 meters (10 feet) away from these areas, if possible.

2. Near air returns, heating and cooling supply vents, fans, decorative objects, window molding etc. that may prevent heat from entering the unit thus interrupting its alarm.



3. In rooms where temperatures may fall below -23°C or rise above 70°C .

4. Near fluorescent lights-electrical noise and flickering may affect the alarm's operations.

⚠ WARNING: Incorrect orientation will result in a decrease in operational effectiveness.

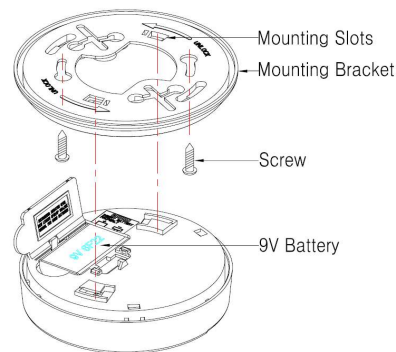
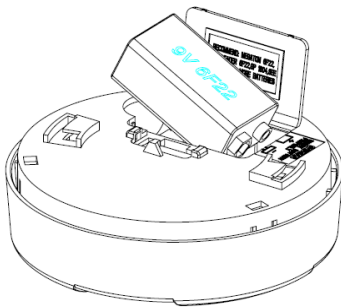
HOW TO INSTALL THIS HEAT ALARM

⚠ **DANGER:** ELECTRICAL SHOCK HAZARD.

Turn off power at the main fuse box or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position.

⚠ **WARNING:** This heat alarm is mains powered and requires wiring by a qualified electrician in accordance with the current IEE Regulations for Electrical Installations (BS7671).

The circuit used to power the heat alarm must be a dedicated permanent supply that cannot be switched off accidentally by the normal user. Before installing ensure the electrical supply is isolated.



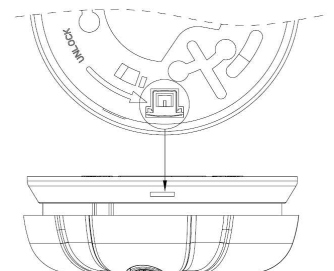
1. From back of heat alarm, remove the mounting plate by turning it counterclockwise. (To later engage tamper-resist feature, twist out and set aside one of the pins molded into plate. Both pins are exactly the same.)
2. Gently pull household wires through center hole of plate.
3. Secure plate to ceiling or wall with mounting screws.
4. With a small wire connector, connect brown wire from connector plug to brown household wire.
5. Connect blue wire from connector plug to blue household wire.
6. If interconnection is desired, connect yellow wire from connector to interconnect wire between heat alarms.
See section **INTERCONNECTING HEAT ALARMS**.

NOTE: If this will be used as a single-station heat alarm, cover yellow wire with electrical tape and tuck it into junction box.

7. Lift open battery pocket door.
8. Connect new 9-volt battery to battery connector inside battery pocket. Be sure battery is securely connected. Heat alarm may beep briefly when battery is installed.
9. Close battery pocket door, snapping it into place.
10. Attach connector plug to pins on back of heat alarm. Plug will only fit one way and will snap into place.
11. Gently tug connector to be sure it is attached securely.
12. Position heat alarm to mounting plate and turn clockwise to lock into place. To engage tamper-resist feature, insert pin into notch on edge of heat alarm after alarm is properly positioned in base.

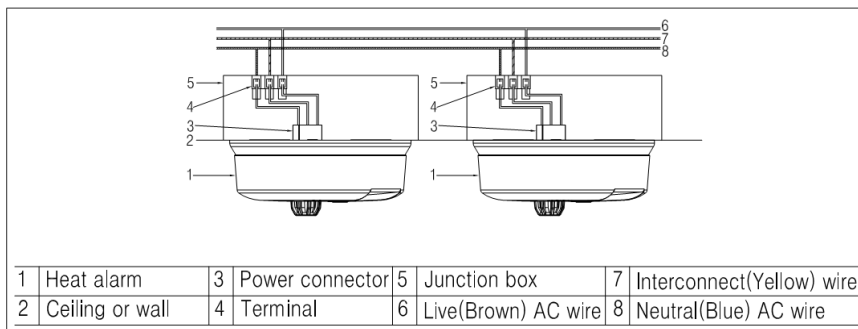
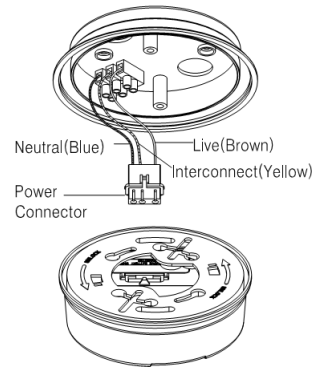
NOTE: Heat alarm will not mount to plate if battery is not installed.

13. Turn on power at main fuse box or circuit breaker.
14. Push test button to test heat alarm. See **TESTING THE HEAT ALARM**.



INTERCONNECTING HEAT ALARMS

For interconnecting line, only use #14-#18 AWG minimum solid or stranded wire. When being interconnected, maximum wire length between any two is 1500 feet for #18 AWG or 4000 feet for #14 AWG (20 OHMS loop resistance). This heat alarm can be interconnected with as many as 40 other DC or AC ORIENTALERT heat alarms and/or smoke alarms. Do not connect to any other type or model heat alarms except the ones we specify. And this heat alarm is powered by 220–240V AC 50Hz and with 9V DC Battery back-up.

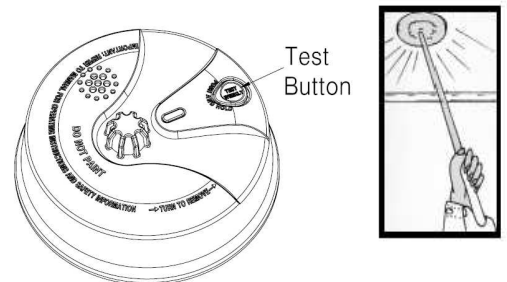


OPERATING YOUR HEAT ALARM

Once the heat alarm has been installed a small GREEN indicator light (LED) should be visible through the alarm grill indicating that AC supply is healthy. A RED indicator light (LED) should also flash approximately once a minute to indicate the battery is healthy and the unit is operating properly. If heat is detected, the unit will emit a loud pulsating alarm and a RED indicator light (LED) will be flashing quickly until the detected temperature is below its fixed temperature.

TESTING THE HEAT ALARM

1. Test each heat alarm to be sure it is installed correctly and operating properly.
2. The Test button accurately tests functions. Do not use an open flame to test this heat alarm. You may ignite and damage the heat alarm or your home.
3. Test heat alarms weekly and upon returning from vacation or when no one has been in the household for several days.
4. Stand at arm's length from the heat alarm when testing.



TEST ALL HEAT ALARMS WEEKLY BY DOING THE FOLLOWING:

1. Firmly push the TEST button, and the heat alarm will sound a loud beep. The alarm will stop sounding after releasing the TEST button.
2. If heat alarm does not sound, please retest it.



DANGER: If the alarm sounds, and heat alarm is not being tested, the heat alarm is sensing 58°C (135°F) or greater temperature. THE SOUND OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

MAINTENANCE AND CLEANING

In addition to weekly testing, this heat alarm requires yearly battery replacement and periodic cleaning to remove dust, dirt, and debris.

BATTERY REPLACEMENT

Always turn off the AC supply to the heat alarm before replacing the battery.

Replace battery at least once a year or immediately when the low battery signal sounds once a minute, even though the heat alarm is receiving AC power. Batteries should be replaced regularly as necessary.

⚠ WARNING: Do not use any other type of battery, except as specified in this manual.

Do not use rechargeable batteries.

⚠ CAUTION: Explosion will happen if battery is incorrectly replaced.

You'd better use good battery to make the alarm work long. Some batteries can be used more than one year. The battery should only be replaced by a qualified electrician or similarly qualified person.

1. Turn off AC power supply to the heat alarm.
2. Turn heat alarm counterclockwise to detach it from the mounting plate.
3. Gently pull down heat alarm.
4. Remove battery from the compartment.
5. Insert a new 9-volt battery to connector. **NOTE POLARITY OF CONNECTIONS.**

Ensure the metal tab is fully depressed when the battery has been fitted.

6. Using the Test button, test the heat alarm to verify 9V DC battery back-up.

See **“TESTING THE HEAT ALARM”**

7. Reattach the heat alarm to the mounting plate by turning smoke alarm clockwise until it snaps into place.
8. Turn on power supply and test heat alarm using “Test” button.

See **“TESTING THE HEAT ALARM”**

CHOOSING A REPLACEMENT BATTERY:

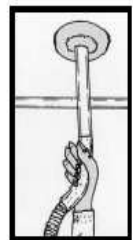
The unit requires one standard 9V battery. The following batteries are acceptable as replacements:

Megaton #6F22; New Leader #6F22; Gold Peak #1604; Eveready #522, #1222;
Golden Power G6F22, Golden Power GL6F22A

CLEANING

Clean the heat alarm at least once a month to remove dust, dirt, or debris. Always turn off power to heat alarm before cleaning.

Using the soft brush or wand attachment to a vacuum cleaner, vacuum all sides and cover of heat alarm. Be sure all the vents are free of debris. If necessary, use a damp cloth to clean heat alarm cover.



IMPORTANT: Do not attempt to remove the cover to clean inside the smoke alarm.

This will void your warranty.

⚠ WARNING: Do not attempt to remove the cover to clean inside the heat alarm.

This will void your warranty.

PRACTICE FIRE SAFETY

If the heat alarm sounds its alarm horn, and you have not pushed the test button, it is warning of a dangerous

situation. Your immediate response is necessary. To prepare for such occurrences, develop family escape plans, discuss them with all household members, and practice them regularly.


1. Expose everyone to the sound of a heat alarm and explain what the sound means.
2. Determine two exits from each room and an escape route to the outside from each exit.
3. Teach all household members to touch the door and use an alternate exit if the door is hot. Instruct them not to open the door if the door is hot.
4. Teach household members to crawl along the floor to stay below dangerous smoke, fumes and gases.
5. Determine a safe meeting place for all members outside the building.

WHAT TO DO IN CASE OF FIRE

1. Do not panic; stay calm.
2. Leave the building as quickly as possible. Touch doors to feel if they are hot before opening them. Use an alternate exit if necessary. Crawl along the floor, and do not stop to collect anything.
3. Meet at a pre-arranged meeting place outside the building.
4. Call the fire department from outside the building.
5. Do not go back inside a burning building. Wait for the fire department to arrive.

These guidelines will assist you in the event of a fire. However, to reduce the chance that fires will start, practice fire safety rules and prevent hazardous situations.

TROUBLESHOOTING

 **WARNING:** DO NOT disconnect battery to quiet an unwanted alarm. This will remove your protection.

PROBLEM	SOLUTION
Heat alarm does not sound when tested. NOTE: Push test button for at least five seconds while testing!	<ol style="list-style-type: none"> 1. Remove heat alarm from mounting plate and check that battery is properly attached to connector. 2. Clean heat alarm.
Heat alarm beeps about once a minute.	Replace battery. See battery replacement in the maintenance and cleaning section.
Heat alarm sounds unwanted alarms	<ol style="list-style-type: none"> 1. Clean heat alarm. See cleaning in the maintenance and cleaning section 2. Hire an electrician to move heat alarm to a new location. See HEAT ALARM PLACEMENT
The alarm sounds different than I'm used to. It starts and stops.	The alarm is operating correctly. This alarm features the internationally recognized horn signal for evacuation. The alarm sound pattern is 3 short beeps followed by a 2 second pause and then repeats.

Manufacturer: Xiamen Vs-Top Electronics Co., Ltd.
 2nd floor, No. 107 Xianguang Road, Xinyang Industrial District,
 Haicang, Xiamen, China.
 Tel: 0086-592-6017700 Fax: 0086-592-6017711
 E-mail: info@vs-top.com Website: www.orientalert.com